

National Infrastructure Advisory Council (NIAC)

Convergence Working Group

Status Report
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Overview

- ▣ Purpose
- ▣ Status of *Next Steps* from Last Meeting
- ▣ Timeline
- ▣ Actions
- ▣ Directional Recommendations
- ▣ Next Steps

Purpose

- ▣ **Mission:** The Convergence Study Group will investigate important questions and make recommendations regarding the protection of SCADA and Process Control Systems from cyber threats.

3

The Five Framework Questions

- ▣ ***Security as an Enabler*** - How do we position Cyber Security as a contributor and an enabler to achieving reliability, availability and safety goals in the management of SCADA and Process Control Systems?
- ▣ ***Market Drivers*** - What are the market drivers required to gain industry attention and commitment to research and product development?
- ▣ ***Executive Leadership Awareness*** - How do we best generate executive leadership awareness to assist in creating a culture and environment that values the protection of SCADA and Process Control Systems from cyber threats?
- ▣ ***Federal Government Leadership Priorities*** - What are the appropriate Federal Government leadership roles and priorities in identifying threats, vulnerabilities, risks and solutions?
- ▣ ***Improving Information Sharing*** - What are the obstacles and recommendations for improving information sharing about Process Control Systems and SCADA threats, vulnerabilities, risks and solutions?

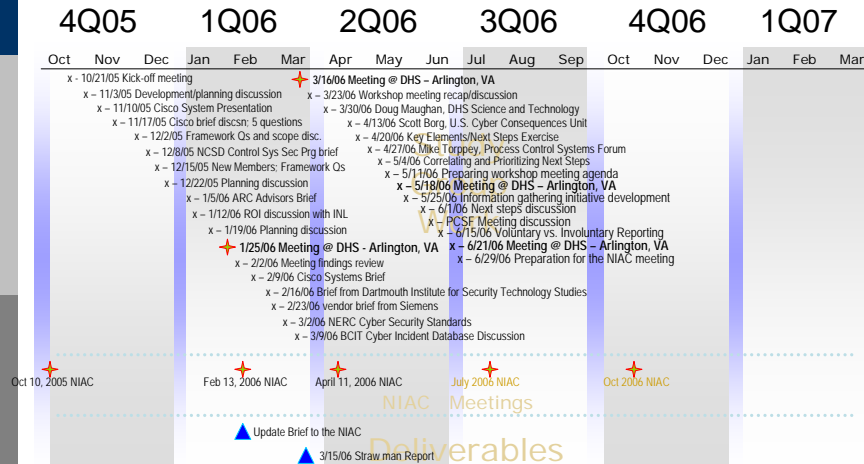
4

Status of *Next Steps* from Last Meeting

- ✓ Address consequences element with Scott Borg, US-CCU
 - Integrated consequences into recommendation for improving Executive Leadership Awareness, informed discussions on Improved Information Sharing
- ✓ Conduct CEO information gathering
 - Attended Process Control Systems Forum Spring Meeting, interviewed eight executive level participants to validate initial findings
- ✓ Further develop potential recommendations
 - Identified 9 draft recommendations to address key elements/framework questions
- ✓ Consult University of Georgia Department of Risk Management
 - Collaborating with Malcolm Baldrige Award board of overseers to communicate SCADA/ PCS cyber security message.

5

Time Line



6

Actions

- ▣ Held 11 weekly conference call discussions with subject matter experts to address key issues identified during the discovery process
- ▣ Held third and fourth face-to-face workshop meetings at DHS
- ▣ Used the Five Framework Questions to identify key elements of the desired end states
- ▣ Developed process to interrogate the key elements of the framework questions
- ▣ Attended the Process Control Systems Forum Spring Meeting to gather executive level perspective on the study's initial findings
- ▣ Developed 9 draft recommendations for identified key elements

7

Directional Recommendations

- ▣ Executive Leadership Awareness:
 - Advocate the dissemination of information on threat, vulnerabilities and economic impacts to owner-operators, vendors and government executives in CIP
 - Recommending specific plan in final report based on findings
- ▣ Government Leadership:
 - Evaluate recommending a study to investigate the potential role of Sarbanes-Oxley in ensuring the protection of SCADA and PCS from cyber threats
 - Working with Malcolm Baldrige board of overseers to communicate SCADA/PCS cyber security message
 - Recommending that government R&D funding coordinate based on priorities identified by cross-agency CSIA IWG annual reports
 - Recommend funding to accelerate and promote Control Systems Security Program's Vulnerability Assessment Tool to improve owner-operators security posture

8

Directional Recommendations *(continued)*

❑ To Improve information sharing:

- Recommend collection of incident data through protected, trusted mechanism with CERT/CC to provide for more accurate CIP risk assessments
- Provide CERT/CC program with the necessary resources to rapidly ramp up their SCADA/Process Control Systems training and engineering consulting services needed to build the trusted relationships that will facilitate incident information sharing
- To get the right information to the right people at the right time, recommend acceptance of and collaboration in efforts to develop the Congressionally-mandated and President-directed Information Sharing Environment.
- Recommend drafting formal request to intelligence community (RFI) to assess the cyber threat to SCADA and Process Control Systems and communicate that information with Critical Infrastructure owner-operators

9

Next Steps

- ❑ Investigate outstanding key elements
- ❑ Investigate the role of the Malcolm Baldrige Quality Award in raising executive awareness and government leadership in security of SCADA and PCS
- ❑ Continue executive information gathering to validate draft recommendations
- ❑ Finalize recommendations
- ❑ Draft the Final Report for October submission to the NIAC

10

Discussion

▣ Questions?